This assignment requires you to normalize a set of Functional Dependencies to develop a correct 3NF solution. The assignment is worth 5 marks. Submit via Bb by the required time and date.

Submission requirements: A document that shows each step in the process (2 marks (i.e., reduce left side to 2NF, eliminate transitive dependencies on right side) of converting the supplied FDs into a 3NF solution (3 marks).

Here are the FDs:

FD1: AJ🡪LNPSQ

FD2: AC🡪FHI

FD3: A🡪EJLNQ

FD4: J🡪LQ

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Ordered List | Decompose | Simplify | Eliminate Transitive Dependencies | Combine |
| J🡪LQ | J🡪L  J🡪Q | J🡪L  J🡪Q | J🡪L  J🡪Q | 2NF Solution:  A🡪LQEJNPSFHI |
| A🡪EJNQ | A🡪E  A🡪J  A🡪N  A🡪Q | A🡪E  A🡪J  A🡪N  A🡪Q | A🡪E  A🡪J  A🡪N  ~~A🡪Q~~ |  |
| AC🡪FHI | AC🡪F  AC🡪H  AC🡪I | AC🡪F  AC🡪H  AC🡪I | AC🡪F  AC🡪H  AC🡪I | 3NF Solution:  J🡪LQ  A🡪EJNPS  C🡪FHI |
| AJ🡪LNPSQ | AJ🡪L  AJ🡪N  AJ🡪P  AJ🡪S  AJ🡪Q | A~~J~~🡪L  A~~J~~🡪N  A~~J~~🡪P  A~~J~~🡪S  A~~J~~🡪Q | ~~A🡪L~~  ~~A🡪N~~  A🡪P  A🡪S  ~~A🡪Q~~ |  |